I. Description of Operations Financed:

Funding for this program provides depot level maintenance and overhaul for missile systems, rockets, gun systems and surface/undersea/aviation and anti-submarine warfare (ASW) systems. Ammunition and ordnance rework and certification are also performed in this program. Funding is also provided for maintenance of electronic components, data processors and guidance systems that are integral with weapons systems operations.

II. Force Structure Summary:

Air-Launched Missile Rework: maintenance which is performed at two lead Naval Weapons Stations, joint service maintenance facilities managed by the Air Force and the Army, two Naval Surface Warfare Center (NSWC), three lead Naval Air Warfare Centers (NAWC) and other non-Navy Working Capital Fund (NWCF) activities.

Air-Launched Ordnance Rework: supports maintenance which is performed at six Naval Weapons Stations, major forward Naval Magazines, two surface Warfare Centers, and Single Manager for Conventional Ammunition operated facilities. Non-expendable ordnance (bomb racks, aircraft gun systems, missile launchers) maintenance is performed at six Naval Aviation Depots, Hill AFB, or Army Ammunition's Plant (Anniston).

Special Weapons Maintenance: supports maintenance performed at Naval Surface Warfare Centers and non-NWCF Navy and Defense maintenance activities specified in the Naval Atomic Planning Support and Capabilities listing (NAPSAC). The Pioneer UAV is supported by NAWC Pt Mugu, NSWC Indian Head, two Naval Weapons Stations and commercial depots. The Pioneer Systems in service are operated and deployed by three Marine companies and two Navy units. The Tactical Air Launched Decoy (TALD) is maintained and supported by NAWC Pt Mugu and NWS Yorktown. There are approximately 4,200 TALDs in the inventory. The Tactical Aircraft Mission Planning System (TAMPS) is maintained and supported by NSWC Dahlgren and non-NWCF Navy activities.

Ship Weapons Maintenance provides depot maintenance and repair of search radar components in the fleet and the repair and overhaul of Navy-owned weapons systems on Coast Guard ships. This program includes refurbishment and restoration of Navy Tactical Data Systems (NTDS) on all active ships, restoration of inertial navigation and stabilized gyrocompass systems on surface combatants and depth detectors on SSNs and SSBNs. This program also supports repair and restoration of 2F Cog Undersea Warfare Equipment such as sonar systems. The Sonar Software Maintenance provides computer program support for the LAMPS MK III Integrated Aircraft/Shipboard Weapons Systems including the SH-60B Helicopter and AN/SQQ-28(V) sonar processor. The Surface Warfare Rework/Maintenance program supports the following: Mine Maintenance, Close In Weapon System (CIWS), Self Defense Surface Weapon System, Vertical Launch System (VLS), Missile System Rework, Medium and Long Range Depot Maintenance, Gun Weapon System Overhaul, and ASM System Maintenance.

The Ammunition System Rework/Maintenance program provides support for Ammunition. Funding is also provided for logistic support, acquisition management, configuration control of tactical embedded computer systems, peripherals and displays. The Anti-Submarine Warfare (ASW) Systems Maintenance programs supports the following systems: MK-46 Torpedo components, MK-48/Advanced Capability (ADCAP) Torpedo Warshot, and MK-50 torpedoes; MK-117 Fire Control Systems (FCS); Combat Support System (CSS) MK-1 and MK-2s; the OD 44979 Firing Craft Operating Procedures Checklist; Vertical Launch Array (VLA) shipboard systems; AN/BSY-1 Submarine Combat Systems, AN/BQQ-5 Sonar System and associated handlers and trainers; and AN/SQQ-89 Combat Systems; Integrated Carrier ASW Prediction Systems (ICAPS); the Aircraft Carrier (CV) Anti-Submarine Warfare (ASW) Module; the AN/UYS-1 Advanced Signal Processor (ASP); and the AN/UYS-2 Enhanced Module Signal Processor combatants in the fleet.

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FY 2003

Actuals

433,194

Budget

Request

466,425

III. Financial Summary (\$ in Thousands):

A. Sub-Activity Group Total

FY 2004

473,009

Appropriation

Current

Estimate

448,672

FY 2005

Estimate

447,327

B. Reconciliation Summary		
	Change	Change
	FY 2004/2004	FY 2004/2005
Baseline Funding	466,425	448,672
Congressional Adjustments - Distributed	12,000	0
Congressional Adjustments - Undistributed	-2,903	0
Adjustments to Meet Congressional Intent	1,400	0
Congressional Adjustments - General Provisions	-3,913	0
Subtotal Appropriation Amount	473,009	0
Across-the-board Reduction (Rescission)	0	0
Emergency Supplemental Carryover	0	0
Program Changes (Current Year to Current Year)	-10,837	0
Subtotal Baseline Funding	462,172	0
Anticipated Supplemental	0	0
Reprogrammings	-13,500	0
Price Change	0	8,009
Functional Transfers	0	0
Program Changes	0	-9,354
Normalized Current Estimate	448,672	0
Current Estimate	0	447,327

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C. Reconciliation of Increases and Decreases

1.	FY 2004 President Budget Request.		466,425
2.	Congressional Adjustment (Distributed).		12,000
	a) Mark-45 5" Gun Depot Overhauls	12,000	
3.	Congressional Adjustment (Undistributed).		-2,903
	a) SWA CONOPS	-906	
	b) Unobligated Balances	-1,997	
4.	Adjustment to meet Congressional Intent.		1,400
	a) Apprentice, Engineering Technician-NUWC Keyport	1,400	
5.	Congressional Adjustment (General Provision).		-3,913
	a) Sec. 8101: Reduce IT Development Cost Growth	-384	
	b) Sec. 8094: Management Improvements	-1,360	
	c) Sec. 8126: Economic Assumptions	-2,169	
6.	FY 2004 Appropriated Amount.		473,009
7.	Program Increases FY 2004 (Functional Transfers).		743
	a) Transfer of support for Navy Submarine Torpedo Facility Yorktown for contract technical services and production workers to perform engineering services in support of Mod 4, 5, and 6 torpedoes from BA 1, Ship Depot Maintenance (1B4B).	743	
8.	Program Decreases FY 2004 (Technical Adjustments).		-423
	a) Decrease reflects realignment of facilities management funding to BA 1, Base Support (BSS1). Programs previously budgeted in mission budget lines determined to fit the definition of the functional areas of the Base Operations model are realigned to Base Operations (BSS1).	-423	
9.	Program Increases FY 2004 (Emergent Requirements).		921
	a) Increase to Submarine Acquisition Program (\$503K); Joint Advanced Strike Tech Program (\$300K); Integrated Warfare Systems Program (\$118K).	921	
10.	Program Decreases FY 2004 (Emergent Requirements).		-12,078
	a) Decrease in the Submarine Acoustics Program (-\$1,878K).	-1,878	
	b) Decrease in Organic Maintenance associated with Aircraft Armament Equipment (AAE) and Tactical Automated Mission Planning System (TAMPS) and Non-Core Logistics Maintenance Support associated with Sparrow, Harm, Hellfire, Sidewinder, and AMRAAM.	-10,200	

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11. Baseline Funding (sul	ototal).		462,172
12. Reprogramming (Rec	uiring 1415 Actions) Decreases.		-13,500
a) FY 2004 National	Defense Authorization Act Weapons Maintenance	-13,500	
13. Revised FY 2004 Cur	rent Estimate.		448,672
14. Normalized Current	Estimate for FY 2004.		448,672
15. FY 2005 Price Chang	e.		8,009
16. Program Growth in I	Y 2005.		28,617
a) Increase for BAMS	/Global Hawk for the Pioneer program.	10,000	
Devices (CAD), G	anic Maintenance associated with AAE, Aircrew Escape Propulsion Systems (AEPS), Bombs, Cartridge Actuated ATOR, Gun Systems, Harpoon, Pyrotechnics, SLAM(ER), Sparrow, and Sidewinder (\$12,107K) offset by decrease ance associated with AWW-13, Countermeasure, HARM, Hellfire, Maverick, Phoenix, Rockets & Launchers, er (-\$5,357).	6,750	
Systems, JDAM, J	n-Core Logistics Maintenance Support associated with AAE, AEPS, Ammunitions, CADS, Countermeasures, Gun SOW, Rocket & Launchers, and TOW (\$6,991K) offset by decreases in Non-Core Logistics Maintenance Support IRAAM, Bombs, GATOR, HARM, Hellfire, Maverick, Pyrotechnic, Sidewinder, Sonobuoys, and Sparrow (-	6,198	
	nmercial Maintenance Support associated with AWW-13, Sidewinder, SLAM(ER), AMRAAM, Harpoon, TAMPS, 8K) offset by decrease in Commercial Maintenance associated with HARM, AAE, and JDAM (-\$1,769K).	5,319	
	ace ASW System Maintenance Program support 41 additional fleet events during ASW readiness training will support two additional trials for deploying ships.	350	
17. Program Decrease in	FY 2005.		-37,971
a) Decrease in Core I Weapons Maintena	ogistics Maintenance Support associated with Air Launched Missiles, Air Launched Ordnance, and Special nce.	-854	
environmentally ha	ne Warfare Program reflects a reduction of the support to demilitarized and disposed of physically and zardous materials from many mines, mine batteries, and mine hardware removed from inventory (-\$2,600K) offset t maintenance of Quickstrike mines and maintenance of the unmanned underwater vehicle (UUV) (\$1,200K).	-1,400	
to repair of UNQ-9 software maintenan number of submari	Submarine Acoustics Program reflects reduction to AN/BQS-15 under-ice submarine sonar depot level repairables, legacy data records and to number of submarine transducer repairs and to NA/UNQ-9 legacy data recorder are and to depot software maintenance for AN/BQN-17 depth sounder (-\$7,133K) offset by increase in additional ne combat system waterfront fleet tech assists and support visits along with a restoration to the number of conducts at systems fleet operational training courses (\$4,850K).	-2,283	

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d)	Decrease in the Submarine Acquisition Program reflects a reduction in support for reliability and exercise analyses, reduced torpedo and vertical launch maintenance.	-3,220
e)	Net decrease to Integrated Warfare Systems Program reflects reduced documentation updates for the AN/SQQ-89 USW Combat System; an elimination of all repairs including overhauls except for C4 CASREPS and significant impact to fleets ability to use NSSMS and TAS systems; reduction to the number of CIWS depot overhaul repairs that can be performed per year and a reduction of system engineering to support existing operational systems; canceled funding for Thermal Imaging Sensor System (TISS); reduction in FFG AAW Weapon Systems computer program maintenance support, operation and maintenance, training and intermediate maintenance activity support; reduction to Fleet AAW defensive capabilities CEC equipment provided to operational AN/USG-2 and 3 systems (-\$15,459K) offset by increase for Ship Self Defense System (SSDS) MK 2 Mod 2 software testing for the USS SAN ANTONIO, which will support Standard Missile round recertification services to the fleet.	-11,484
f)	Net decrease to Joint Advanced Strike Technology Program results in eight fewer MK-45 GM overhauls, seven additional MK45 SPMRs, one less MK75 GM SPMR, 11 less MK 86 component overhauls and five additional MK86 fire control pierside repairs, reduction to component overhauls, and reduction of engineering support of the Naval Fire Control System (-\$21,010K) offset by increase in support of gun weapon system in-service engineering analysis, ammo malfunction investigations, and 2T Ammo technical manuals updates (\$2,280K).	-18,730

18. FY 2005 Budget Request. 447,327

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IV. Performance Criteria and Evaluation Summary:

		FY 2003	FY 2004	FY 2005
WEAPONS MAINTENANCE, TOTAL		433,194	448,672	447,327
A. AIR LAUNCHED MISSILE REWORK		22,278	25,263	28,099
Maintenance (Commercial)	Cost	2,476	9,244	10,426
Maintenance (Organic)	Cost	4,082	2,230	2,010
	Units	103	759	759
Logistics Element Support	Cost	15,720	13,789	15,663
	Workyears	90	58	74
B. AIR LAUNCHED ORDNANCE REWORK		42,350	49,719	61,000
Maintenance (Commercial)	Cost	2,897	3,100	2,569
Maintenance (Organic)	Cost	9,402	15,612	22,642
· -	Units	123,827	165,162	115,838
Logistics Element Support	Cost	30,051	31,007	35,789
	Workyears	126	161	192
C. JOINT MISSILE PLANNING SYSTEM		9,000	5,650	5,450
	Cost	9,000	5,650	5,450
	Workyears	61	46	53
D. PIONEER		15,192	8,362	18,808
	Cost	15,192	8,362	18,808
	Workyears	97	68	18
E. SPECIAL WEAPONS REWORK		18,389	11,868	16,719
AAW-13		1,404	1,722	2,226
Harpoon		3,474	1,384	1,667
SLAM		885	-	-

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	FY 2003	FY 2004	FY 2005
SLAM ER	10,303	7,150	11,683
Logistics Element Support	2,323	1,612	1,143
Workyears (All Weapons)	77	80	65
F. SURFACE ASW SYSTEM MAINTENANCE	7253	7423	7820
1 Depot Level Repairable Maintenance	520	478	472
2 ASW Test Program	3,131	3,046	3,130
3 ASW Range Program	2,244	2,525	2,748
4 Surface Ship Acoustic Silencing Test Program	1,358	1,374	1,470
G. SUBMARINE ACOUSTICS	38,851	33,157	31,338
1 Depot Level Repairables	7,337	7,251	1,641
2 Depot Software Maintenance	4,144	2,907	1,518
3 Repair/Refurbishment	1,302	1,459	1,487
4 Consolidated Shore Facility	1,225	922	939
5 Fleet Support	24,843	20,618	25,753
H. SUBMARINE ACQUISITION	65,174	67,844	65,570
1 MK-48 Torpedo NS	14,479	15,352	13,989
2 MK-48 Torpedo Ordnance	30,336	30,391	31,040

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	<u>FY 2003</u>	FY 2004	<u>FY 2005</u>
3 Vert Launch NS	1,600	989	962
4 Vertical Launch Ordnance	1,063	1,542	388
5 Lightweight Torpedo NS	7,628	7,996	8,103
6 Lightweight Torpedo OT	7,977	8,848	8,315
7 Targets		209	221
8 Sub Countermeasures NS	1,119	1,570	1,627
9 Sub Countermeasures DLR	300	274	262
10 Surf Ship Torp Def (NIXIE) NS	224	171	149
11 Surf Ship Torp Def (NIXIE) DLR	448	502	514
I. MINE WARFARE1 MCM Other End Item	13,043 938	13,319 1,044	12,060 1,086
2 MCM NS	1,710	1,917	1,896
3 EOD DLR	1,183	1,106	1,711
4 Mines Other End Item	3,067	3,377	4,033
5 Mines NS	6,145	5,875	3,334

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J. INTEGRATED WARFARE SYSTEMS 1 Surface USW Maintenance NS	FY 2003 166,507 14,665	FY 2004 185,127 11,483	FY 2005 179,025 10,323
2 Surface USW Depot Repair	3,544	3,686	4,062
3 NSP NS	3,160	2,865	2,938
4 NSP Depot Repair	1,100	1,469	1,470
5 Carrier ASW Module Maint NS	1,534	2,197	2,350
6 Carrier ASW Module Maint Other End Item	609	912	938
7 MK30 Target NS	1,374	-	0
8 MK30 Target Other End Item	6,700	-	0
9 FFG-7 AAW Weapon Systems Support MK 92 MOD 6/MK 13 MOD 4 (NS)	3,645 3,645	3,556 3,556	1,857 1,857
10 NTDS/ACDS 2F COG Electronics Other Maintenance (OT)	1,990 1,990	2,819 2,819	3,137 3,137
11 Ship Self Defense System Non Depot Maintenance (NS) Ordnance Maintenance (OT)	11,638 9,965 1,673	10,735 9,289 1,446	13,465 12,252 1,213
12 ANTI-SHIP MISSILE DEFENSE-AN/SLQ-32(V) AN/SLQ-32 (NS)	8,050 8,050	8,196 8,196	8,467 8,467
13 Standard Missile	21,992	24,315	25,934

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	FY 2003	FY 2004	FY 2005
Non-Depot Maintenance (NS)	1,089	173	1,042
Missile Maintenance (OT)	20,903	23,743	24,463
Missile Maintenance (Aerial Targets) (OT)	0	399	429
14 Vertical Launch Systems (VLS)	3,917	4,129	3,705
Non-Depot Maintenance (NS)	393	645	113
Missile Maintenance (OT)	3,524	3,484	3,592
15 Cooperative Engagement Capability (CEC)	14,792	24,364	21,898
Other Maintenance (OT)	14,792	19,510	18,457
Non Depot Maintenance	0	4,854	3,441
16 NULKA	2,291	2,186	3,175
NULKA (NS)	2,291	2,186	3,175
17 Advanced Integrated Electronic Warfare Systems	0	0	0
AIEWS (NS)	0	0	0
18 Self Defense Test Ship (NS)	0	0	0
STDS (NS)	0	0	0
19 Navigation			
Electronics and Communication	2,122	2,088	2,124
Software Support	0	0	0
20 Engagement System Weapons Maintenance			
Computer Program Maintenance	280	-	0
21 Small Arms Repair			
Small Arms Repair	7,349	1,006	927
Small Arms Tracking (WY)	1,300	1,300	1,321

1D4D Weapons Maintenance

	FY 2003	FY 2004	FY 2005
Small Arms Distribution (WY)	522	376	382
In-Service Engineering	400	747	759
Mounts Procurement	4,071	2,101	2,087
22 NATO SEASPARROW			
Non-Depot Maintenance	18,700	19,438	17,970
Depot Maintenance	4,402	4,541	3,987
NSPO Direct (manyears)	-	-	0
23 RAM Maintenance			
Non-Depot Maintenance	2,904	4,376	3,175
Depot Maintenance	2,136	605	1,560
24 CIWS			
Other End Item Maintenance	-	-	0
Maintenance Engineering Agent (MEA)	6,236	5,066	4,334
Systems Engineering	1,195	1,539	1,589
CIWS Overhauls	-	21,765	19,602
25 Surface Electro Optics (MMS)			
Mast Mounted Sights	-	1,861	1,839
Thermal Imaging Sensor System (TISS)	1,427	1,496	0
Non Depot Maintenance	309	546	0
26 Surface Ship Surface Radars			
Other End Item Maintenance	6,346	6,259	6,241
Program management	567	618	639
Engineering Support	806	891	815
Software Maintenance	119	132	134
27 Self Defense Test Ship (SDTS)			
Maintenance Support	-	=	0

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Department of the Navy
Operation and Maintenance, Navy
1D4D Weapons Maintenance
FY 2005 President's Budget Submission
Exhibit OP-5

	FY 2003	FY 2004	<u>FY 2005</u>
28 AN/SPQ-9B			
Maintenance Support	4,315	5,464	5,821
Expeditionary warfare	-	-	0
K. JOINT ADVANCED STRIKE TECHNOLOGY	35,157	40,940	21,438
1 Gun Weapon Systems Replacement Program	25,777	31,831	11,056
Gun Weapons Support (NS)	2,800	1,009	753
Ordnance Maintenance (OT)	14,300	23,964	5,872
Other Maintenance (OT)	8,677	6,858	4,431
2 2T Ammunition	7,519	6,712	8,016
Acquisition/In-Service/Program Support (NS)	7,519	6,712	8,016
3 Naval Fires Control System (CT)	1,861	2,397	2,366

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V. Personnel Summary:

End Strength	FY 2003 ES	FY 2004 ES	Change FY 2004 to FY 2005	FY 2005 ES
Direct Hire, U.S.	19	19	0	19
TOTAL CIVPERS	19	19	0	19
TOTAL MILPERS	0	0	0	0
	FY 2003	EV 2004	Change FY 2004 to	FY 2005
Workyears	WY 2003	FY 2004 WY	FY 2004 to FY 2005	WY 2005
Direct Hire, U.S.	19	19	0	19
TOTAL CIVPERS	19	19	0	19
TOTAL MILPERS	0	0	0	0

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VI. Summary of Price and Program Growth (OP-32):

	FY-03 Program Total	FY-04 Price Growth	FY-04 Program Growth	FY-04 Program Total	FY-05 Price Growth	FY-05 Program Growth	FY-05 Program Total
1D4D							
01 Civilian Personnel Compensation							
0101 Exec Gen & Spec Schedules	1,915	79	56	2,050	41	52	2,143
TOTAL 01 Civilian Personnel Compensation	1,915	79	56	2,050	41	52	2,143
03 Travel							
0308 Travel of Persons	1,691	24	-48	1,667	24	-67	1,624
TOTAL 03 Travel	1,691	24	-48	1,667	24	-67	1,624
06 Other WCF Purchases (Excl Transportation)							
0602 Army Depot Sys Cmd-Maintenance	4,525	375	-2,023	2,877	43	-467	2,453
0610 Naval Air Warfare Center	38,009	-875	-6,069	31,065	745	8,711	40,521
0611 Naval Surface Warfare Center	102,365	920	28,468	131,753	1,445	-1,894	131,304
0612 Naval Undersea Warfare Center	80,064	320	-12,400	67,984	1,837	629	70,450
0613 Naval Aviation Depots	5,189	119	5,555	10,863	337	2,111	13,311
0614 Spawar Systems Center	5,586	100	-624	5,062	71	-1,531	3,602
0620 Military Sealift Cmd - Fleet Aux Ships	1,314	0	162	1,476	0	-167	1,309
0630 Naval Research Laboratory	433	4	603	1,040	24	-151	913
0637 Naval Shipyards	791	-28	5,759	6,522	828	-2,262	5,088
0647 DISA Information Services	0	0	9	9	0	0	9
0661 Depot Maintenance Air Force - Organic	0	0	139	139	9	-30	118
TOTAL 06 Other WCF Purchases (Excl Transportation)	238,276	935	19,579	258,790	5,339	4,949	269,078

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VI. Summary of Price and Program Growth (OP-32):

Y-04 FY-04 Price Program	8	FY-05 Price	FY-05 Program	FY-05 Program
owin Growin	1 Otai	Growth	Growth	Total
1 11,702	11,799	165	-1,266	10,698
0 45	45	1	-22	24
,130 30,284	118,361	1,657	-19,704	100,314
139 6,611	17,372	243	-2,026	15,589
32 -265	2,246	31	-211	2,066
864 -57,905	9,479	132	5,948	15,559
313 2,499	26,863	376	2,993	30,232
0 -597	0	0	0	0
-7,626	186,165	2,605	-14,288	174,482
3,517 11,961	448,672	8,009	-9,354	447,327
	Price Program Growth 1 11,702 0 45 ,130 30,284 139 6,611 32 -265 864 -57,905 313 2,499 0 -597 ,479 -7,626	Price with Program Growth Program Total 1 11,702 11,799 0 45 45 ,130 30,284 118,361 139 6,611 17,372 32 -265 2,246 864 -57,905 9,479 313 2,499 26,863 0 -597 0 ,479 -7,626 186,165	Price with Program Growth Program Total Price Growth 1 11,702 11,799 165 0 45 45 1 ,130 30,284 118,361 1,657 139 6,611 17,372 243 32 -265 2,246 31 864 -57,905 9,479 132 313 2,499 26,863 376 0 -597 0 0 ,479 -7,626 186,165 2,605	Price with Program Growth Program Total Price Growth Program Growth 1 11,702 11,799 165 -1,266 0 45 45 1 -22 ,130 30,284 118,361 1,657 -19,704 139 6,611 17,372 243 -2,026 32 -265 2,246 31 -211 864 -57,905 9,479 132 5,948 313 2,499 26,863 376 2,993 0 -597 0 0 0 ,479 -7,626 186,165 2,605 -14,288

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